ABSTRACT OF THE DISCLOSURE

Label information used by a downstream LSR is mirrored on an upstream LSR. In particular, a copy of the label information database in the downstream LSR from LDP sessions is stored on the upstream LSR. The

5   label information database and corresponding mirror are synchronized. The mirror is employed to facilitate recovery from control plane failure through comparison of the label information database with the mirror. For example, the intersection of the label information

10 database and the mirror may be calculated and employed as the updated label information database and mirror.